

Select

Select A sophisticated Angular select component (`<aava-select>`) that provides advanced selection capabilities with support for search, multiple selection, icons, form integration, and comprehensive accessibility features. How to use ■ `import { AavaSelectComponent } from "@aava/play-core"` ; Basic Usage ■ The most basic implementation of the select component with simple options. Search Functionality ■ Enable search to filter options dynamically as users type. Search Features ■ Real-time Filtering : Options filter as you type Search Input : Dedicated search field within the select No Results State : Clear messaging when no options match Keyboard Navigation : Arrow keys work with search results Multiple Selection ■ Enable multiple selection mode for selecting multiple options simultaneously. Multiple Selection Features ■ Multiple Values : Select multiple options simultaneously Visual Distinction : Selected options have different styling Comma-separated Display : Multiple selections shown as comma-separated text Individual Deselection : Click selected options to deselect them Icons ■ Add icons to options and customize the dropdown toggle icon. Icon Features ■ Option Icons : Add icons to individual options using `<aava-icon>` Custom Dropdown Icon : Customize the dropdown toggle icon Icon Integration : Icons work seamlessly with all other features Accessibility : Icons properly labeled for screen readers Sizes ■ Five size options to fit different layout requirements and visual hierarchies. Available Sizes ■ xs (Extra Small) - Extra small size for very compact interfaces sm (Small) - Small size for dense interfaces md (Medium) - Medium size for most use cases (default) lg (Large) - Large size for prominent inputs xl (Extra Large) - Extra large size for emphasis and accessibility States & Validation ■ Comprehensive validation system with error messages and various input states. Available States ■ Normal - Default select state Disabled - Non-interactive state with dimmed appearance Error - Validation error state with red styling and error message Required - Indicates mandatory fields Form Integration ■ Comprehensive Angular forms integration with reactive forms and validation. Form Features ■ Reactive Forms : Full support for Angular reactive forms Template-driven Forms : Works with template-driven forms Validation Integration : Seamless integration with Angular validators Form Control : Implements `ControlValueAccessor` interface Error Handling : Automatic error message display based on form state Accessibility ■ Comprehensive accessibility features ensuring WCAG compliance and inclusive user experience. Keyboard Navigation ■ Toggle Control : Enter/Space : Open/close select Arrow Down : Open select and focus first option Arrow Up : Open select and focus last option Escape : Close select Option Navigation : Arrow Up/Down : Navigate between options Enter/Space : Select option Home : Focus first option End : Focus last option Escape : Close select and return to toggle Search Navigation : Arrow Down/Up : Navigate from search to options Enter : Select first filtered option Escape : Close select ARIA Support ■ Roles : Proper listbox , option , and combobox roles States : `aria-expanded` , `aria-selected` , `aria-disabled` Labels : `aria-label` and `aria-labelledby` for screen readers Live Regions : Dynamic content updates announced to screen readers API Reference ■

Inputs ■ **Property** **Type** **Default** **Description**

placeholder	string	'Select'	Placeholder text shown when no option is selected
label	string	''	Label text displayed above the select
id	string	''	Custom element ID
required	boolean	false	Mark field as required for validation
dropdownIcon	string	'chevron-down'	Icon for the dropdown toggle button
error	string	''	Custom error message to display
disabled	boolean	false	Disable the entire select
multiple	boolean	false	Enable multiple selection
mode	enum	'md'	Select size: 'xs', 'sm', 'md', 'lg', 'xl'
showSearch	boolean	true	Enable search functionality
inModal	boolean	false	Optimize positioning for modal contexts
displayMode	enum	'flyout' 'normal' 'flyout'	Display mode for the dropdown panel
expanded	boolean	false	Control expanded state programmatically
alwaysOpen	boolean	false	Keep dropdown always open
optionOnly	boolean	false	Show only options without toggle
parent	boolean	false	Enable hierarchical parent mode
child	boolean	false	Enable hierarchical child mode
hierarchicalOptions	array		SelectHierarchicalOption[] Hierarchical options for nested structure
customStyles	Record<string, string>	{}	CSS custom properties override
allText	string	'All'	Text for "select all" option in multiple mode
allValue	string	'all'	Value for "select all" option in multiple mode

Outputs ■ **Event** **Type** **Description**

selectionChange	EventEmitter<any>		Emitted when selection changes
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SelectboxSize ■ **type** **SelectboxSize** = "xs" | "sm" | "md" | "lg" | "xl" ; **Methods** ■ The component implements **ControlValueAccessor** for form integration:

Method	Parameters	Description
writeValue	value: any	Set value programmatically
registerOnChange	fn: Function	Register change callback
registerOnTouched	fn: Function	Register touched callback
setDisabledState	isDisabled: boolean	Set disabled state

CSS Custom Properties ■ The select uses CSS custom properties for consistent theming:

Property	Description
--select-toggle-padding	Padding inside the toggle button
--select-toggle-background	Background color of the toggle
--select-toggle-border-radius	Border radius of the toggle
--select-toggle-font	Font styling for toggle text
--select-brand-color	Brand color for focus and selection
--select-brand-text-color	Text color for selected items
--select-place-holder-color	Color for placeholder text
--select-menu-background	Background color of the dropdown menu
--select-menu-border-radius	Border radius of the dropdown menu
--select-menu-shadow	Box shadow of the dropdown menu
--select-panel-margin	Margin around the dropdown panel
--select-panel-max-height	Maximum height of the dropdown panel
--select-option-padding	Padding for individual options
--select-item-font	Font styling for options
--select-item-color	Text color of options
--select-item-background	Background color of options
--select-item-background-hover	Background color on hover
--select-item-text-hover	Text color on hover
--select-item-transition	Transition animation for interactions
--select-error-color	Color for error messages and state
--select-error-border	Border color for error state
--select-disabled-text	Text color for disabled state
--select-background-disabled	Background color for disabled state

Best Practices ■ **Implementation Guidelines** ■ **Option Structure** : Use meaningful content for option labels **Performance** : For large option lists, consider implementing virtual scrolling **Search** : Enable search for selects with 10+ options **Icons** : Use consistent icon families and sizes **Validation** : Provide clear error messages and validation feedback **Multiple Selection** : Use multiple selection sparingly for better UX **Accessibility Best Practices** ■ **Labels** : Always provide descriptive labels for screen readers **Error Messages** : Make error messages specific and

actionable Keyboard Navigation : Test all keyboard interactions thoroughly Focus Management : Ensure focus moves logically through the interface ARIA Labels : Use descriptive ARIA labels for complex interactions Performance Considerations ■ Large Lists : Implement virtual scrolling for 100+ options Debouncing : Consider debouncing search input for large datasets Change Detection : Use OnPush strategy when possible Memory : Clean up event listeners and subscriptions properly Rendering : Optimize re-rendering with trackBy functions UX Guidelines ■ Option Order : Group related options logically Clear Labels : Use clear, concise option names Visual Hierarchy : Use consistent spacing and typography Feedback : Provide immediate visual feedback for all interactions Error States : Make error states clearly visible and understandable Search Placeholder : Provide helpful search placeholder text Loading States : Show loading indicators for async operations

```
<aava-select
  label="Select User"
  placeholder="Select a user"
  [showSearch]="false"
>
  <aava-select-option value="john">John Doe</aava-select-option>
  <aava-select-option value="jane">Jane Smith</aava-select-option>
  <aava-select-option value="bob">Bob Johnson</aava-select-option>
  <aava-select-option value="alice">Alice Brown</aava-select-option>
</aava-select>
```

```
<aava-select
  label="Search Items"
  placeholder="Search and select an item"
  [showSearch]="true">
  <aava-select-option *ngFor="let item of largeDataset" [value]="item.value">
    {{ item.label }}
  </aava-select-option>
</aava-select>
```

```
largeDataset = this.generateLargeDataset(100);
```

```
private generateLargeDataset(count: number) {
  const items = [];
  for (let i = 1; i <= count; i++) {
    items.push({
      value: `item-${i}`,
      label: `Item ${i} - Sample Data Entry`
    });
  }
  return items;
}
```

```
<aava-select
  [multiple]="true"
  label="Select Users"
  [showSearch]="false"
  placeholder="Select users">
  <aava-select-option value="1">John Doe</aava-select-option>
  <aava-select-option value="2">Jane Smith</aava-select-option>
  <aava-select-option value="3">Jack Wilson</aava-select-option>
</aava-select>
```

```
<aava-select
  label="Countries"
  [showSearch]="false"
  placeholder="Select a country">
  <aava-select-option value="us">
    <aava-icon iconName="circle-check"></aava-icon> United States
  </aava-select-option>
  <aava-select-option value="ca">
    <aava-icon iconName="x-circle"></aava-icon> Canada
  </aava-select-option>
  <aava-select-option value="uk">
    <aava-icon iconName="clock"></aava-icon> United Kingdom
  </aava-select-option>
  <aava-select-option value="de">
    <aava-icon iconName="pause"></aava-icon> Germany
  </aava-select-option>
</aava-select>
```

```
<aava-select
  label="Custom Dropdown Icon"
  [showSearch]="false"
  placeholder="Select language"
  dropdownIcon="settings">
  <aava-select-option value="javascript">JavaScript</aava-select-option>
  <aava-select-option value="typescript">TypeScript</aava-select-option>
  <aava-select-option value="python">Python</aava-select-option>
</aava-select>
```

```
<aava-select size="xs" label="Extra Small" placeholder="Extra Small" [showSearch]="false">
  <aava-select-option value="1">John Doe</aava-select-option>
  <aava-select-option value="2">Jane Smith</aava-select-option>
  <aava-select-option value="3">Jack Wilson</aava-select-option>
  <aava-select-option value="4">James Brown</aava-select-option>
</aava-select>

<aava-select size="sm" label="Small" placeholder="Small" [showSearch]="false">
  <aava-select-option value="1">John Doe</aava-select-option>
  <aava-select-option value="2">Jane Smith</aava-select-option>
  <aava-select-option value="3">Jack Wilson</aava-select-option>
  <aava-select-option value="4">James Brown</aava-select-option>
</aava-select>

<aava-select size="md" label="Medium" placeholder="Medium" [showSearch]="false">
  <aava-select-option value="1">John Doe</aava-select-option>
  <aava-select-option value="2">Jane Smith</aava-select-option>
  <aava-select-option value="3">Jack Wilson</aava-select-option>
  <aava-select-option value="4">James Brown</aava-select-option>
</aava-select>

<aava-select size="lg" label="Large" placeholder="Large" [showSearch]="false">
  <aava-select-option value="1">John Doe</aava-select-option>
  <aava-select-option value="2">Jane Smith</aava-select-option>
  <aava-select-option value="3">Jack Wilson</aava-select-option>
  <aava-select-option value="4">James Brown</aava-select-option>
</aava-select>

<aava-select size="xl" label="Extra Large" placeholder="Extra Large" [showSearch]="false">
  <aava-select-option value="1">John Doe</aava-select-option>
  <aava-select-option value="2">Jane Smith</aava-select-option>
  <aava-select-option value="3">Jack Wilson</aava-select-option>
  <aava-select-option value="4">James Brown</aava-select-option>
</aava-select>
```

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